

# Lead, Copper, and Arsenic in Drinking Water Report

Burien Community Center Annex  
425 SW 144<sup>th</sup> Street  
Burien, King, Washington

January 15, 2020  
Terracon Project No. 81207008



**Prepared for:**  
MENG Analysis  
Seattle, Washington

**Prepared by:**  
Terracon Consultants, Inc.  
Mountlake Terrace, Washington

Offices Nationwide  
Employee-Owned

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# Terracon

Geotechnical   ■   Environmental   ■   Construction Materials   ■   Facilities

January 15, 2020

MENG Analysis  
2001 Western Avenue, Suite 200  
Seattle, Washington 98121

Attn: Ms. Sarah Partap

RE: Lead, Copper, and Arsenic in Drinking Water  
Burien Community Center Annex  
14700 6<sup>th</sup> Avenue SW  
Burien, Washington 98166  
Terracon Project No. 81187154

Dear Ms. Partap

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Lead, Copper, and Arsenic in Drinking Water report for the above-referenced site. This assessment was performed in accordance with Terracon Proposal P81207008, dated January 9, 2020. The sampling was performed on January 10, 2020.

Terracon Consultants, Inc. appreciates the opportunity to be of service to MENG Analysis. If you have any questions regarding this report, please contact the undersigned at 425-771-3304.

Sincerely,  
**Terracon Consultants, Inc.**

*for* John McCaslin  
Project Manager

Kathie Lavaty, CIH, CSP  
Senior Industrial Hygienist



Terracon Consultants, Inc. 21905 64<sup>th</sup> Avenue West, Suite 100 Mountlake Terrace, WA 98043  
P [425] 771-3304 F [425] 771-3549 [terracon.com](http://terracon.com)



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**Lead, Copper, and Arsenic in Drinking Water Report**  
**Burien Community Center Annex**  
**14700, 6<sup>TH</sup> AVENUE SW**  
**Burien, WASHINGTON**

**Terracon Project No. 81207008**  
**January 15, 2020**

## **1.0 INTRODUCTION**

Terracon Consultants, Inc. (Terracon) is pleased to present this report for the lead, copper, and arsenic in drinking water assessment conducted on January 10, 2020, at the above referenced site. Our report presents project information, drinking water sampling methodology and results, and conclusions and recommendations.

The assessment was conducted to assist the client in determining the concentrations of lead, copper, and arsenic (analytes) in drinking water. Terracon referenced the following regulations as guidelines of known conservative regulatory or guidance concentrations of the analytes:

- Lead and copper - (WAC) 170-300-0235 *Foundational Quality Standards for Early Learning Programs; Safe Waters Sources*.
- Arsenic – Environmental Protection Agencies (EPA) Maximum Contaminant Level Goals (MCLGs) and Maximum Contaminant Levels (MCLs).

## **2.0 EXECUTIVE SUMMARY**

A lead, copper, and arsenic in drinking water assessment was conducted at the Burien Community Center Annex at 14700 6<sup>th</sup> Avenue SW in Burien, Washington, on January 10, 2020. The site is a community center annex for the city of Burien encompassing approximately 300,000 square feet which is occupied by several community groups.

Four of the 22 samples collected exceeded the regulatory limit of 15 parts per billion (ppb) for lead in drinking water.

None of the samples collected exceeded the regulatory limits of 1,300 ppb for copper in drinking water.

None of the samples collected exceeded the regulatory limits and 10 ppb for arsenic in drinking water.

## **3.0 REGULATIONS**

Terracon referenced two regulations as guidelines for comparison with the sample results. For lead and copper, Terracon used Washington Administrative Code (WAC) Title 170, Chapter 300 *Foundational Quality Standards for Early Learning Programs; Safe Water Sources*. This regulation sets forth requirements for lead and copper testing and levels in

drinking water under in childcare and preschool facilities. For arsenic, Terracon used the Maximum Contaminant Levels (MCLs) established by the EPA's National Primary Drinking Water Regulations (NPDWR) regulation.

#### 4.0 SAMPLING METHODOLOGY AND RESULTS

Representative first-draw samples were collected from taps at sinks and drinking fountains throughout the facility following a period of at least 6 hours where the tap was not used. The first-draw sample is representative of water contained in the fixture at the sampled location. Second-draw sampling was not performed at the time of this assessment. The drinking water samples were collected and submitted to NVL Laboratories, Inc. in Seattle, Washington., for analysis by graphite furnace atomic absorption according to EPA Method 200.9.

Sinks in rooms N7 and N28, and drinking fountains located in hallways N31 and N34 were not assessed because the water to these locations was shut off. Water flow was restored to the drinking fountain in hallway N32 for the purpose of sampling during the assessment.

According to WAC 170-300-0235, the allowable limit for lead and copper concentrations in drinking water is 15 ppb and 1,300 ppb, respectively. Lead concentrations in 4 of the 22 samples collected exceeded this limit. The copper concentrations in drinking water samples collected were found to be below this standard. According to the EPA's NPDWR, the maximum contaminant level for arsenic in drinking water is 10 ppb. The arsenic concentrations in the drinking water samples collected were found to be below this standard. A summary of the drinking water sampling results is provided below; samples with lead concentration in excess of the regulatory limit are indicated in **bold**:

| Sample No.      | Sample Type       | Location                       | Lead Result   | Copper Result | Arsenic Result |
|-----------------|-------------------|--------------------------------|---------------|---------------|----------------|
| DW-N2-01        | First Draw        | Room N2 – South Sink           | 15 ppb        | 51 ppb        | <5 ppb         |
| DW-N2-02        | First Draw        | Room N2 – North Sink           | 9.7 ppb       | 44 ppb        | <5 ppb         |
| DW-N3-03        | First Draw        | Room N3 – Sink                 | 5.3 ppb       | 28 ppb        | <5 ppb         |
| <b>DW-N4-04</b> | <b>First Draw</b> | <b>Restroom N4 – East Sink</b> | <b>36 ppb</b> | 170 ppb       | <5 ppb         |
| DW-N4-05        | First Draw        | Restroom N4 – West Sink        | 6.7 ppb       | 170 ppb       | <5 ppb         |
| DW-N1-06        | First Draw        | Room N1 – Sink                 | <1 ppb        | 29            | <5 ppb         |
| <b>DW-N6-07</b> | <b>First Draw</b> | <b>Restroom N6 – East sink</b> | <b>26 ppb</b> | 190 ppb       | <5 ppb         |

## Lead, Copper, and Arsenic in Drinking Water Report

Burien Community Center Annex ■ Seattle, WA

January 15, 2020 ■ Terracon Project No. 81207008



| Sample No.      | Sample Type       | Location                        | Lead Result   | Copper Result | Arsenic Result |
|-----------------|-------------------|---------------------------------|---------------|---------------|----------------|
| <b>DW-N6-08</b> | <b>First Draw</b> | <b>Restroom N6 – West Sink</b>  | <b>21 ppb</b> | 170 ppb       | <5 ppb         |
| DW-N16-09       | First Draw        | Room N16 – Sink                 | 5.3 ppb       | 37 ppb        | <5 ppb         |
| DW-N35-10       | First Draw        | Restroom N35 – Sink             | 2 ppb         | <5 ppb        | <5 ppb         |
| DW-N36-11       | First Draw        | Restroom N36 – Sink             | 7 ppb         | 46 ppb        | <5 ppb         |
| DW-N23-12       | First Draw        | Room N23 Sink – Sink            | <1 ppb        | 14 ppb        | <5 ppb         |
| DW-N25-13       | First Draw        | Restroom N25 – Sink             | 14 ppb        | <5 ppb        | <5 ppb         |
| DW-N26-14       | First Draw        | Restroom N26 – Sink             | 1.6 ppb       | 29 ppb        | <5 ppb         |
| DW-S2-15        | First Draw        | Room S2 Sink – Sink             | 3.2 ppb       | 48 ppb        | <5 ppb         |
| DW-S5-16        | First Draw        | Room S5 Sink – Sink             | 5.6 ppb       | 23 ppb        | <5 ppb         |
| <b>DW-S9-17</b> | <b>First Draw</b> | <b>Room S9 – South Sink</b>     | <b>17 ppb</b> | 87 ppb        | <5 ppb         |
| DW-S9-18        | First Draw        | Room S9 – North Sink            | 6.3 ppb       | 210 ppb       | <5 ppb         |
| DW-S7-19        | First Draw        | Restroom S7 – Sink              | 1.9 ppb       | 21 ppb        | <5 ppb         |
| DW-S6-20        | First Draw        | Restroom S6 – Sink              | 1.8 ppb       | 61 ppb        | <5 ppb         |
| DW-S15-21       | First Draw        | Hallway S15 – Drinking Fountain | 1.2 ppb       | 35 ppb        | <5 ppb         |
| DW-N32-22       | First Draw        | Hallway N32 – Drinking Fountain | 7.3 ppb       | 330 ppb       | <5 ppb         |

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Lead was detected above the WAC action level of 15 parts per billion (ppb) as defined in WAC 170-300-0235, in 4 of the 22 water samples collected from fixtures throughout the facility.

Copper was not detected above the WAC action level of 1,300 ppb, as defined in WAC 170-300-0235, in any of the water samples collected from fixtures throughout the facility.

Arsenic was not detected above the EPA action level of 10 ppb, as defined in the EPA NPDR, in any of the water samples collected from fixtures throughout the facility.

The samples collected were from the first-draw of water in the day. This means the water sat stagnant in the pipes a minimum of six hours prior to sample collection. First draw samples help to determine if the fixture has the potential to contribute lead in the water. Terracon recommends that second-draw samples (also called 30-second flush samples) be collected from locations where lead levels above 15 ppb were found. Second draw samples help identify lead in the plumbing behind the fixture.

The table below summarizes locations where Terracon detected lead levels above the referenced regulation.

| Sample No. | Sample Type | Location                | Lead Result |
|------------|-------------|-------------------------|-------------|
| DW-N4-04   | First Draw  | Restroom N4 – East Sink | 36 ppb      |
| DW-N6-07   | First Draw  | Restroom N6 – East sink | 26 ppb      |
| DW-N6-08   | First Draw  | Restroom N6 – West Sink | 21 ppb      |
| DW-S9-17   | First Draw  | Room S9 – South Sink    | 17 ppb      |

If elevated lead levels persist, Terracon recommends that the building owner consider one or more of the various methods available for remediation of lead in drinking water. Remediation methods are widely available on the EPA's website and may include the following:

- **Learn if building has a lead service line.** Contact the water utility or a licensed plumber to determine if the pipe that connects the building to the water main (called a service line) is made from lead.
- **Run the water.** Before drinking, flush the pipes by running the tap. The amount of time to run the water will depend on whether there is a lead service line or not, and the length of the lead service line. Contact the water utility for recommendations about flushing times.
- **Clean the aerator.** Regularly clean the faucet's screen (also known as an aerator). Sediment, debris, and lead particles can collect in the aerator. If lead particles are caught in the aerator, lead can get into the water.
- **Use filters properly.** If a filter is being used, make sure it is certified to remove lead. Read the directions to learn how to properly install and use the cartridge and when to replace it. Using the cartridge after it has expired can make it less effective at removing lead. Follow the manufacturer's installation and maintenance guidelines.



## **6.0 GENERAL COMMENTS**

This drinking water sampling was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during our inspection of the building. The information contained in this report is relevant to the dates on which this inspection was performed and should not be relied upon to represent conditions at a later date.

This report has been prepared on behalf of and exclusively for use by MENG Analysis.

Contractors, consultants or others reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.



## **APPENDIX A**

### **DRINKING WATER SAMPLING LABORATORY ANALYSIS REPORT**

January 13, 2020



John McCaslin  
**Terracon - Mountlake Terrace**  
21905 64th Ave. W #100  
Mountlake Terrace, WA 98043

**RE: Metals Analysis; NVL Batch # 2000743.00**

Client Project: 81207008  
Location: Burien Community Building

Dear Mr. McCaslin,

Enclosed please find test results for the 15 sample(s) submitted to our laboratory for analysis on 1/10/2020.

Preparation and analysis of these samples were conducted using Graphite Furnace Atomic Absorption (GFAA) instrument in accordance with U.S. EPA method EPA 200.9 .

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client will be discarded after two weeks.

For recent regulation updates regarding current regulatory levels, please refer to your local regulatory agencies for more details.

Thank you for using our laboratory services. If you need further assistance, please contact us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Evelyn Ahulu'.

Evelyn Ahulu, EM Lab Manager

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)  
4708 Aurora Avenue North | Seattle, WA 98103-6516

# Analysis Report

## Total Metals



Client: Terracon - Mountlake Terrace  
Address: 21905 64th Ave. W #100  
Mountlake Terrace, WA 98043

**Batch #: 2000743.00**  
Matrix: Drinking Water  
Method: EPA 200.9  
Client Project #: 81207008  
Date Received: 1/10/2020  
Samples Received: 15  
Samples Analyzed: 15

**Attention: Mr. John McCaslin**

Project Location: Burien Community Building

| Lab ID   | Client Sample # | Element      | RL<br>(ug/L) | Results in<br>ug/L | Results in<br>ppb |
|----------|-----------------|--------------|--------------|--------------------|-------------------|
| 20013194 | DW-N2-01        | Lead (Pb)    | 1.0          | 15.0               | 15.0              |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 51.0               | 51.0              |
| 20013195 | DW-N2-02        | Lead (Pb)    | 1.0          | 9.7                | 9.7               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 44.0               | 44.0              |
| 20013196 | DW-N3-03        | Lead (Pb)    | 1.0          | 5.3                | 5.3               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 28.0               | 28.0              |
| 20013197 | DW-N4-04        | Lead (Pb)    | 1.0          | 36.0               | 36.0              |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 170.0              | 170.0             |
| 20013198 | DW-N4-05        | Lead (Pb)    | 1.0          | 6.7                | 6.7               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 170.0              | 170.0             |
| 20013199 | DW-N1-06        | Lead (Pb)    | 1.0          | < 1.0              | < 1.0             |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 29.0               | 29.0              |
| 20013200 | DW-N6-07        | Lead (Pb)    | 1.0          | 26.0               | 26.0              |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 190.0              | 190.0             |

Sampled by: Client

Analyzed by: Shalini Patel

Reviewed by: Evelyn Ahulu

Date Analyzed: 01/13/2020

Date Issued: 01/13/2020

Evelyn Ahulu, EM Lab Manager

ug/ L = Micrograms per Liter

ppb = Parts per billion

RL = Reporting Limit

'<' = Below the reporting limit

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

# Analysis Report

## Total Metals



Client: Terracon - Mountlake Terrace  
Address: 21905 64th Ave. W #100  
Mountlake Terrace, WA 98043

**Batch #: 2000743.00**  
Matrix: Drinking Water  
Method: EPA 200.9  
Client Project #: 81207008  
Date Received: 1/10/2020  
Samples Received: 15  
Samples Analyzed: 15

**Attention: Mr. John McCaslin**

Project Location: Burien Community Building

| Lab ID   | Client Sample # | Element      | RL<br>(ug/L) | Results in<br>ug/L | Results in<br>ppb |
|----------|-----------------|--------------|--------------|--------------------|-------------------|
| 20013201 | DW-N6-08        | Lead (Pb)    | 1.0          | 21.0               | 21.0              |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 170.0              | 170.0             |
| 20013202 | DW-N16-09       | Lead (Pb)    | 1.0          | 5.3                | 5.3               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 37.0               | 37.0              |
| 20013203 | DW-N35-10       | Lead (Pb)    | 1.0          | 2.0                | 2.0               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | < 5.0              | < 5.0             |
| 20013204 | DW-N36-11       | Lead (Pb)    | 1.0          | 7.0                | 7.0               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 46.0               | 46.0              |
| 20013205 | DW-N23-12       | Lead (Pb)    | 1.0          | < 1.0              | < 1.0             |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 14.0               | 14.0              |
| 20013206 | DW-N25-13       | Lead (Pb)    | 1.0          | 14.0               | 14.0              |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | < 5.0              | < 5.0             |
| 20013207 | DW-N26-14       | Lead (Pb)    | 1.0          | 1.6                | 1.6               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 29.0               | 29.0              |

Sampled by: Client

Analyzed by: Shalini Patel

Reviewed by: Evelyn Ahulu

Date Analyzed: 01/13/2020

Date Issued: 01/13/2020

Evelyn Ahulu, EM Lab Manager

ug/ L = Micrograms per Liter

ppb = Parts per billion

RL = Reporting Limit

'<' = Below the reporting limit

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

# Analysis Report

## Total Metals



Client: Terracon - Mountlake Terrace  
Address: 21905 64th Ave. W #100  
Mountlake Terrace, WA 98043

Attention: **Mr. John McCaslin**

Project Location: Burien Community Building

**Batch #: 2000743.00**

Matrix: Drinking Water

Method: EPA 200.9

Client Project #: 81207008

Date Received: 1/10/2020

Samples Received: 15

Samples Analyzed: 15

| Lab ID   | Client Sample # | Element      | RL<br>(ug/L) | Results in<br>ug/L | Results in<br>ppb |
|----------|-----------------|--------------|--------------|--------------------|-------------------|
| 20013208 | DW-S2-15        | Lead (Pb)    | 1.0          | 3.2                | 3.2               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 48.0               | 48.0              |

Sampled by: Client

Analyzed by: Shalini Patel

Reviewed by: Evelyn Ahulu

Date Analyzed: 01/13/2020

Date Issued: 01/13/2020

Evelyn Ahulu, EM Lab Manager

ug/ L = Micrograms per Liter

ppb = Parts per billion

RL = Reporting Limit

'<' = Below the reporting limit

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

# DRINKING WATER LABORATORY SERVICES



# NVL

**Company** Terracon - Mountlake Terrace  
**Address** 21905 64th Ave. W #100  
 Mountlake Terrace, WA 98043  
**Project Manager** Mr. John McCaslin  
**Phone** (425) 771-3304  
**NVL Batch Number** 2000743.00  
**TAT** 1 Day **AH** No  
**Rush TAT**  
**Due Date** 1/13/2020 **Time** 3:25 PM  
**Email** jdmccaslin@terracon.com  
**Fax** (425) 771-3549

**Project Name/Number:** 81207008 **Project Location:** Burien Community Building

**Subcategory** Special Combinations

**Item Code** GFA-G2 EPA 200.9 Pb, Cu & As by GFAA <drinking water>

**Total Number of Samples** 15

**Rush Samples**

|    | Lab ID   | Sample ID | Description | A/R |
|----|----------|-----------|-------------|-----|
| 1  | 20013194 | DW-N2-01  |             | A   |
| 2  | 20013195 | DW-N2-02  |             | A   |
| 3  | 20013196 | DW-N3-03  |             | A   |
| 4  | 20013197 | DW-N4-04  |             | A   |
| 5  | 20013198 | DW-N4-05  |             | A   |
| 6  | 20013199 | DW-N1-06  |             | A   |
| 7  | 20013200 | DW-N6-07  |             | A   |
| 8  | 20013201 | DW-N6-08  |             | A   |
| 9  | 20013202 | DW-N16-09 |             | A   |
| 10 | 20013203 | DW-N35-10 |             | A   |
| 11 | 20013204 | DW-N36-11 |             | A   |
| 12 | 20013205 | DW-N23-12 |             | A   |
| 13 | 20013206 | DW-N25-13 |             | A   |
| 14 | 20013207 | DW-N26-14 |             | A   |
| 15 | 20013208 | DW-S2-15  |             | A   |

|                        | Print Name | Signature | Company | Date | Time |
|------------------------|------------|-----------|---------|------|------|
| <b>Sampled by</b>      | Client     |           |         |      |      |
| <b>Relinquished by</b> | Client     |           |         |      |      |

| Office Use Only   | Print Name    | Signature | Company | Date    | Time |
|---|---------------|-----------|---------|---------|------|
| <b>Received by</b>  | Kelly AuVu    |           | NVL     | 1/10/20 | 1525 |
| <b>Analyzed by</b>  | Shalini Patel |           | NVL     | 1/13/20 |      |
| <b>Results Called by</b>  |               |           |         |         |      |
| <input type="checkbox"/> Faxed <input type="checkbox"/> Emailed |               |           |         |         |      |

**Special Instructions:**

Date: 1/10/2020

Time: 3:26 PM

Entered By: Kelly AuVu

# CHAIN of CUSTODY SAMPLE LOG

# 2000743

LABORATORY • MANAGEMENT • TRAINING

Client Terracon - Mountlake Terrace

Street 21905 64th Ave. W #100

Mountlake Terrace, WA 98043

NVL Batch Number

Client Job Number 81207008

Total Samples 22

Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days

☐ 2 Hrs ☐ 1 Day ☐ 4 Days

☒ 4 Hrs ☐ 2 Days ☐ 5 Days

Please call for TAT less than 24 Hrs

Project Manager Mr. John McCaslin / Mr. Scott Parker

Project Location Burien Community Building

Email address jdmccaslin@terracon.com

scott.parker@terracon.com

Phone: (425) 771-3304

Fax: (425) 771-3549

|  |   |  |  |   |   |
|--|---|--|--|---|---|
| <input type="checkbox"/> Asbestos Air            | <input type="checkbox"/> PCM (NIOSH 7400)       | <input type="checkbox"/> TEM (NIOSH 7402)          | <input type="checkbox"/> TEM (AHERA)             | <input type="checkbox"/> TEM (EPA Level II)   | <input type="checkbox"/> Other                  |
| <input type="checkbox"/> Asbestos Bulk           | <input type="checkbox"/> PLM (EPA/600/R-93/116) | <input type="checkbox"/> PLM (EPA Point Count)     | <input type="checkbox"/> PLM (EPA Gravimetry)    | <input type="checkbox"/> TEM BULK             |   |
| <input type="checkbox"/> Mold/Fungus             | <input type="checkbox"/> Mold Air               | <input type="checkbox"/> Mold Bulk                 | <input type="checkbox"/> Rotometer Calibration   |   |   |
| <b>METALS</b>                                    | <b>Det. Limit</b>                               | <b>Matrix</b>                                      | <b>RCRA Metals</b>                               | <input type="checkbox"/> All 8                | <b>Other Metals</b>                             |
| <input checked="" type="checkbox"/> Total Metals | <input type="checkbox"/> FAA (ppm)              | <input type="checkbox"/> Air Filter                | <input checked="" type="checkbox"/> Arsenic (As) | <input checked="" type="checkbox"/> Lead (Pb) | <input type="checkbox"/> All 3                  |
| <input type="checkbox"/> TCLP                    | <input checked="" type="checkbox"/> ICP (ppm)   | <input checked="" type="checkbox"/> Drinking water | <input type="checkbox"/> Barium (Ba)             | <input type="checkbox"/> Mercury (Hg)         | <input checked="" type="checkbox"/> Copper (Cu) |
| <input type="checkbox"/> Cr 6                    | <input checked="" type="checkbox"/> GFAA (ppt)  | <input type="checkbox"/> Dust/wipe (Area)          | <input type="checkbox"/> Cadmium (Cd)            | <input type="checkbox"/> Selenium (Se)        | <input type="checkbox"/> Nickel (Ni)            |
|  |   | <input type="checkbox"/> Soil                      | <input type="checkbox"/> Chromium (Cr)           | <input type="checkbox"/> Silver (Ag)          | <input type="checkbox"/> Zinc (Zn)              |
| <input type="checkbox"/> Other Types of Analysis | <input type="checkbox"/> Fiberglass             | <input type="checkbox"/> Nuisance Dust             | <input type="checkbox"/> Other (Specify)         |   |   |
|  | <input type="checkbox"/> Silica                 | <input type="checkbox"/> Respirable Dust           |  |   |   |

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

| Seq. # | Lab ID | Client Sample Number | Comments (e.g Sample are, Sample Volume, etc) | A/R |
|--------|--------|----------------------|---|-----|
| 1      |        | DW-N2-01             |   |     |
| 2      |        | DW-N2-02             |   |     |
| 3      |        | DW-N3-03             |   |     |
| 4      |        | DW-N4-04             |   |     |
| 5      |        | DW-N4-05             |   |     |
| 6      |        | DW-N1-06             |   |     |
| 7      |        | DW-N6-07             |   |     |
| 8      |        | DW-N6-08             |   |     |
| 9      |        | DW-N16-09            |   |     |
| 10     |        | DW-N35-10            |   |     |
| 11     |        | DW-N36-11            |   |     |
| 12     |        | DW-N23-12            |   |     |
| 13     |        | DW-N25-13            |   |     |
| 14     |        | DW-N26-14            |   |     |
| 15     |        | DW-S2-15             |   |     |

|                   | Print Below   | Sign Below | Company  | Date      | Time |
|-------------------|---------------|------------|----------|-----------|------|
| Sampled by        | John McCaslin |            | Terracon | 1/10/2020 |      |
| Relinquished by   | John McCaslin |            | Terracon | 1/10/2020 | 1505 |
| Received by       |               |            | NVL      | 1/10/2020 | 1525 |
| Analyzed by       |               |            |          |           |      |
| Results Called by |               |            |          |           |      |
| Results Faxed by  |               |            |          |           |      |

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.



January 13, 2020



John McCaslin  
**Terracon - Mountlake Terrace**  
21905 64th Ave. W #100  
Mountlake Terrace, WA 98043

**RE: Metals Analysis; NVL Batch # 2000745.00**

Client Project: 81207009  
Location: Burien Community Building

Dear Mr. McCaslin,

Enclosed please find test results for the 7 sample(s) submitted to our laboratory for analysis on 1/10/2020.

Preparation and analysis of these samples were conducted using Graphite Furnace Atomic Absorption (GFAA) instrument in accordance with U.S. EPA method EPA 200.9 .

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client will be discarded after two weeks.

For recent regulation updates regarding current regulatory levels, please refer to your local regulatory agencies for more details.

Thank you for using our laboratory services. If you need further assistance, please contact us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

A handwritten signature in black ink, appearing to read 'Evelyn Ahulu'.

Evelyn Ahulu, EM Lab Manager

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)  
4708 Aurora Avenue North | Seattle, WA 98103-6516

# Analysis Report

## Total Metals



Client: Terracon - Mountlake Terrace  
Address: 21905 64th Ave. W #100  
Mountlake Terrace, WA 98043

**Batch #: 2000745.00**  
Matrix: Drinking Water  
Method: EPA 200.9  
Client Project #: 81207009  
Date Received: 1/10/2020  
Samples Received: 7  
Samples Analyzed: 7

**Attention: Mr. John McCaslin**

Project Location: Burien Community Building

| Lab ID   | Client Sample # | Element      | RL<br>(ug/L) | Results in<br>ug/L | Results in<br>ppb |
|----------|-----------------|--------------|--------------|--------------------|-------------------|
| 20013213 | DW-S5-16        | Lead (Pb)    | 1.0          | 5.6                | 5.6               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 23.0               | 23.0              |
| 20013214 | DW-S9-17        | Lead (Pb)    | 1.0          | 17.0               | 17.0              |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 87.0               | 87.0              |
| 20013215 | DW-S9-18        | Lead (Pb)    | 1.0          | 6.3                | 6.3               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 210.0              | 210.0             |
| 20013216 | DW-S7-19        | Lead (Pb)    | 1.0          | 1.9                | 1.9               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 21.0               | 21.0              |
| 20013217 | DW-S6-20        | Lead (Pb)    | 1.0          | 1.8                | 1.8               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 61.0               | 61.0              |
| 20013218 | DW-S15-21       | Lead (Pb)    | 1.0          | 1.2                | 1.2               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 35.0               | 35.0              |
| 20013219 | DW-N32-22       | Lead (Pb)    | 1.0          | 7.3                | 7.3               |
|          |                 | Arsenic (As) | 5.0          | < 5.0              | < 5.0             |
|          |                 | Copper (Cu)  | 5.0          | 330.0              | 330.0             |

Sampled by: Client

Analyzed by: Shalini Patel

Reviewed by: Evelyn Ahulu

Date Analyzed: 01/13/2020

Date Issued: 01/13/2020

Evelyn Ahulu, EM Lab Manager

ug/ L = Micrograms per Liter

ppb = Parts per billion

RL = Reporting Limit

'<' = Below the reporting limit

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

# DRINKING WATER LABORATORY SERVICES



# NVL

**Company** Terracon - Mountlake Terrace  
**Address** 21905 64th Ave. W #100  
 Mountlake Terrace, WA 98043  
**Project Manager** Mr. John McCaslin  
**Phone** (425) 771-3304  
**NVL Batch Number** 2000745.00  
**TAT** 1 Day **AH** No  
**Rush TAT**  
**Due Date** 1/13/2020 **Time** 3:25 PM  
**Email** jdmccaslin@terracon.com  
**Fax** (425) 771-3549

**Project Name/Number:** 81207009 **Project Location:** Burien Community Building

**Subcategory** Special Combinations

**Item Code** GFA-G2 EPA 200.9 Pb, Cu & As by GFAA <drinking water>

**Total Number of Samples** 7

**Rush Samples**

|   | Lab ID   | Sample ID | Description | A/R |
|---|----------|-----------|-------------|-----|
| 1 | 20013213 | DW-S5-16  |             | A   |
| 2 | 20013214 | DW-S9-17  |             | A   |
| 3 | 20013215 | DW-S9-18  |             | A   |
| 4 | 20013216 | DW-S7-19  |             | A   |
| 5 | 20013217 | DW-S6-20  |             | A   |
| 6 | 20013218 | DW-S15-21 |             | A   |
| 7 | 20013219 | DW-N32-22 |             | A   |

|                        | Print Name | Signature | Company | Date | Time |
|------------------------|------------|-----------|---------|------|------|
| <b>Sampled by</b>      | Client     |           |         |      |      |
| <b>Relinquished by</b> | Client     |           |         |      |      |

| Office Use Only   | Print Name    | Signature | Company | Date    | Time |
|---|---------------|-----------|---------|---------|------|
| <b>Received by</b>  | Kelly AuVu    |           | NVL     | 1/10/20 | 1525 |
| <b>Analyzed by</b>  | Shalini Patel |           | NVL     | 1/13/20 |      |
| <b>Results Called by</b>  |               |           |         |         |      |
| <input type="checkbox"/> Faxed <input type="checkbox"/> Emailed |               |           |         |         |      |

**Special Instructions:**

Date: 1/10/2020  
 Time: 3:29 PM  
 Entered By: Kelly AuVu

# CHAIN of CUSTODY SAMPLE LOG

# 2000745

INDUSTRIAL HYGIENE SERVICES  
LABORATORY • MANAGEMENT • TRAINING

Client Terracon - Mountlake Terrace

Street 21905 64th Ave. W #100

Mountlake Terrace, WA 98043

NVL Batch Number \_\_\_\_\_

Client Job Number 81207009

Total Samples 22

Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days

☐ 2 Hrs ☐ 1 Day ☐ 4 Days

☒ 4 Hrs ☐ 2 Days ☐ 5 Days

Please call for TAT less than 24 Hrs

Project Manager Mr. John McCaslin / Mr. Scott Parker

Project Location Burien Community Building

Email address idmccaslin@terracon.com

Phone: (425) 771-3304

Fax: (425) 771-3549

|  |   |  |  |  |   |
|--|---|--|--|--|---|
| <input type="checkbox"/> Asbestos Air            | <input type="checkbox"/> PCM (NIOSH 7400)       | <input type="checkbox"/> TEM (NIOSH 7402)          | <input type="checkbox"/> TEM (AHERA)           | <input type="checkbox"/> TEM (EPA Level II)      | <input type="checkbox"/> Other                  |
| <input type="checkbox"/> Asbestos Bulk           | <input type="checkbox"/> PLM (EPA/600/R-93/116) | <input type="checkbox"/> PLM (EPA Point Count)     | <input type="checkbox"/> PLM (EPA Gravimetry)  | <input type="checkbox"/> TEM BULK                |   |
| <input type="checkbox"/> Mold/Fungus             | <input type="checkbox"/> Mold Air               | <input type="checkbox"/> Mold Bulk                 | <input type="checkbox"/> Rotometer Calibration |  |   |
| <b>METALS</b>                                    | <b>Det. Limit</b>                               | <b>Matrix</b>                                      | <b>RCRA Metals</b>                             | <input type="checkbox"/> All 8                   | <b>Other Metals</b>                             |
| <input checked="" type="checkbox"/> Total Metals | <input type="checkbox"/> FAA (ppm)              | <input type="checkbox"/> Air Filter                | <input type="checkbox"/> Paint Chips in %      | <input checked="" type="checkbox"/> Arsenic (As) | <input type="checkbox"/> All 3                  |
| <input type="checkbox"/> TCLP                    | <input type="checkbox"/> ICP (ppm)              | <input checked="" type="checkbox"/> Drinking water | <input type="checkbox"/> Paint Chips in cm     | <input checked="" type="checkbox"/> Lead (Pb)    | <input checked="" type="checkbox"/> Copper (Cu) |
| <input type="checkbox"/> Cr 6                    | <input checked="" type="checkbox"/> LGFAA (ppl) | <input type="checkbox"/> Dust/wipe (Area)          | <input type="checkbox"/> Waste Water           | <input type="checkbox"/> Mercury (Hg)            | <input type="checkbox"/> Nickel (Ni)            |
|  | <input type="checkbox"/> Soil                   | <input type="checkbox"/> Other                     | <input type="checkbox"/> Cadmium (Cd)          | <input type="checkbox"/> Selenium (Se)           | <input type="checkbox"/> Zinc (Zn)              |
| <input type="checkbox"/> Other Types of Analysis | <input type="checkbox"/> Fiberglass             | <input type="checkbox"/> Nuisance Dust             | <input type="checkbox"/> Other (Specify) _____ | <input type="checkbox"/> Silver (Ag)             |   |
|  | <input type="checkbox"/> Silica                 | <input type="checkbox"/> Respirable Dust           |  |  |   |

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

| Seq. # | Lab ID | Client Sample Number | Comments (e.g Sample are, Sample Volume, etc) | A/R |
|--------|--------|----------------------|---|-----|
| 1      |        | DW-55-16             |   |     |
| 2      |        | DW-59-17             |   |     |
| 3      |        | DW-59-18             |   |     |
| 4      |        | DW-57-19             |   |     |
| 5      |        | DW-56-20             |   |     |
| 6      |        | DW-515-21            |   |     |
| 7      |        | DW-N32-22            |   |     |
| 8      |        |                      |   |     |
| 9      |        |                      |   |     |
| 10     |        |                      |   |     |
| 11     |        |                      |   |     |
| 12     |        |                      |   |     |
| 13     |        |                      |   |     |
| 14     |        |                      |   |     |
| 15     |        |                      |   |     |

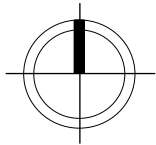
|                   | Print Below          | Sign Below         | Company         | Date             | Time        |
|-------------------|----------------------|--------------------|-----------------|------------------|-------------|
| Sampled by        | <u>John McCaslin</u> | <u>[Signature]</u> | <u>Terracon</u> | <u>1/10/2020</u> |             |
| Relinquished by   | <u>John McCaslin</u> | <u>[Signature]</u> | <u>Terracon</u> | <u>1/10/2020</u> | <u>1525</u> |
| Received by       | <u>Kelly Dill</u>    | <u>[Signature]</u> | <u>NVL</u>      | <u>1/10/2020</u> | <u>1525</u> |
| Analyzed by       |                      |                    |                 |                  |             |
| Results Called by |                      |                    |                 |                  |             |
| Results Faxed by  |                      |                    |                 |                  |             |

**Special Instructions:** Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

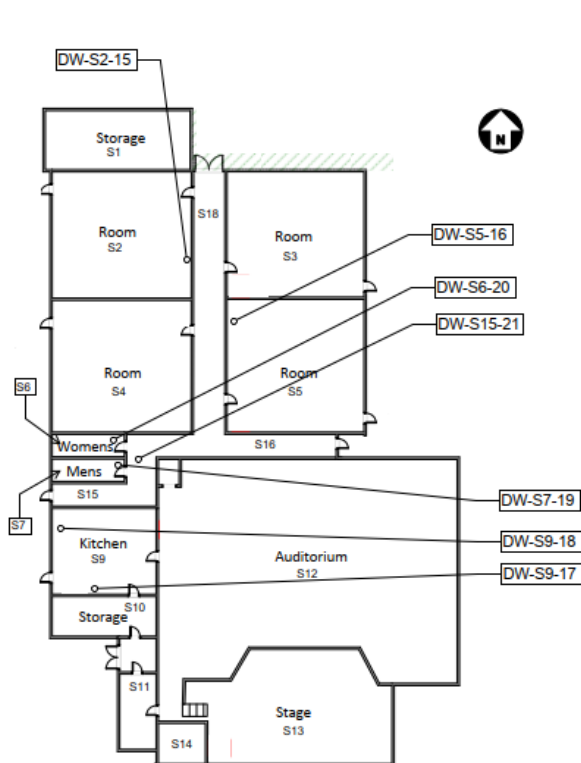
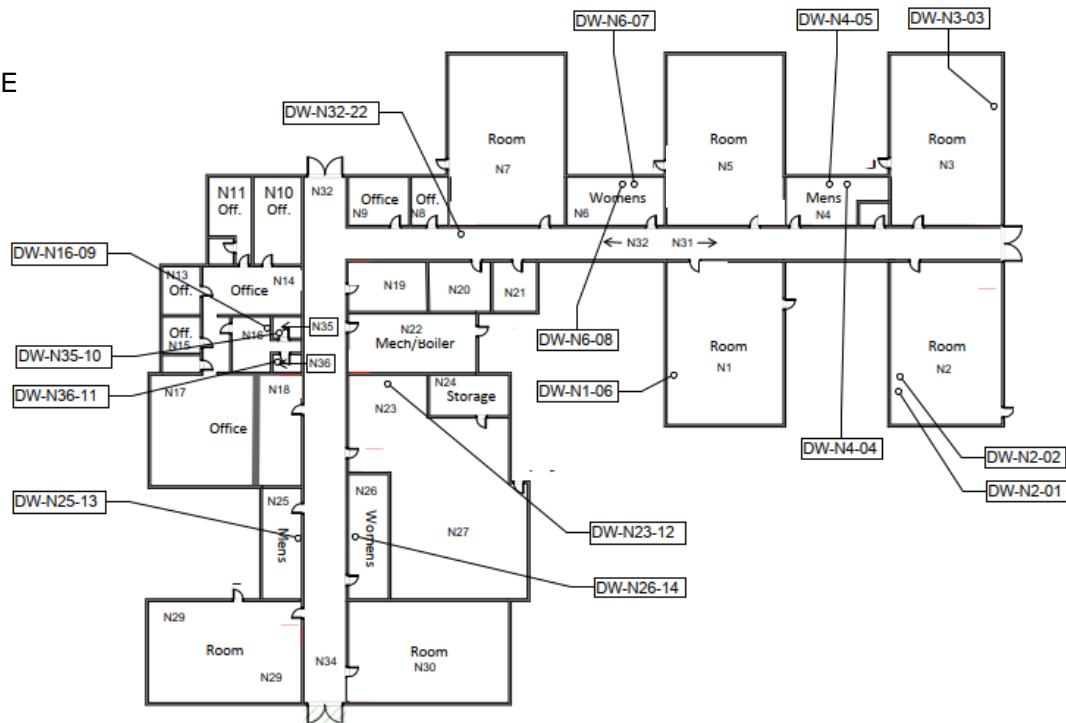
**APPENDIX B**

**DRINKING WATER SAMPLING LOCATIONS**

Figure 1  
 MENG Analysis  
 Burien Community Center Annex  
 Drinking Water Sample Locations



NOT TO SCALE



## **APPENDIX C**

### **LABORATORY CERTIFICATIONS**





March 29, 2019

Laboratory ID: 101861

Nghiep Vi Ly  
NVL Laboratories, Inc.  
4708 Aurora Avenue N.  
Seattle, WA 98103

Dear Mr./Ms. Ly:

Congratulations! The AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC's Analytical Accreditation Board (AAB) has approved NVL Laboratories, Inc. as an accredited Industrial Hygiene, Environmental Lead, Environmental Microbiology and Unique Scope laboratory.

Accreditation documentation includes the IHLAP, ELLAP, EMLAP and Unique Scopes accreditation certificate, scope of accreditation document and a copy of the current AIHA-LAP, LLC license agreement (if your completed agreement is not on file at AIHA-LAP, LLC). The accreditation symbol has been designed for use by all AIHA-LAP, LLC accredited laboratories. If your laboratory chooses to use the symbol in its advertising the laboratory's accreditation, you must complete and return the AIHA-LAP, LLC license agreement to a Laboratory Accreditation Specialist. Once submitted, an electronic copy of the accreditation symbol will be sent to you.

Laboratory accreditation shall be maintained by continued compliance with IHLAP, ELLAP, EMLAP and Unique Scopes requirements (*see Policy Modules 2B, 2C, 2D, 2E, and 6*), which includes proficient participation in AIHA-LAP, LLC approved proficiency testing, demonstration of competency, or round robin program as indicated on the AIHA-LAP "Approved PT and Round Robin" webpage, its associated Scope/PT table, and as required in Policy Module 6, for all Fields of Testing (FoTs) for which the laboratory is accredited. An accredited laboratory that wishes to expand into a new FoT must submit an updated accreditation application to AIHA-LAP, LLC for review by the AAB.

Any changes in ownership, laboratory location, personnel, FoTs/Methods, or significant procedural changes shall be reported to AIHA-LAP, LLC in writing within twenty (20) business days of the change.

The accreditation certificate is the property of AIHA-LAP, LLC and must be returned to us should your laboratory withdraw or be removed from the IHLAP, ELLAP, EMLAP and Unique Scopes.

Again, congratulations. If you have any questions, please contact Lauren Schnack, Laboratory Accreditation Specialist, at (703) 846-0716.

Sincerely,

Cheryl O. Morton  
Managing Director

*AIHA Laboratory Accreditation Programs, LLC*  
3141 Fairview Park Drive, Suite 777, Falls Church, VA 22042 USA  
*main* +1 703-846-0736 *fax* +1 703-207-8558

*Twitter: @AIHA\_LAP\_LLC*

R4 01/24/2018

Page 1 of 1



AIHA

Laboratory Accreditation  
Programs, LLC

## AIHA Laboratory Accreditation Programs, LLC

*acknowledges that*

### NVL Laboratories, Inc.

4708 Aurora Avenue N., Seattle, WA 98103

Laboratory ID: 101861

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

#### LABORATORY ACCREDITATION PROGRAMS

- |                               |                                      |
|-------------------------------|--------------------------------------|
| ✓ INDUSTRIAL HYGIENE          | Accreditation Expires: June 01, 2021 |
| ✓ ENVIRONMENTAL LEAD          | Accreditation Expires: June 01, 2021 |
| ✓ ENVIRONMENTAL MICROBIOLOGY  | Accreditation Expires: June 01, 2021 |
| <input type="checkbox"/> FOOD | Accreditation Expires:               |
| ✓ UNIQUE SCOPES               | Accreditation Expires: June 01, 2021 |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached **Scope of Accreditation**. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached **Scope of Accreditation**. Please review the AIHA-LAP, LLC website ([www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org)) for the most current Scope.

*Beth Bair*

\_\_\_\_\_  
Elizabeth Bair  
Chairperson, Analytical Accreditation Board

*Cheryl O. Morton*

\_\_\_\_\_  
Cheryl O. Morton  
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 17 – 09/11/2018

Date Issued: 03/29/2019



## AIHA Laboratory Accreditation Programs, LLC

### SCOPE OF ACCREDITATION

#### **NVL Laboratories, Inc.**

4708 Aurora Avenue N., Seattle, WA 98103

Laboratory ID: **101861**

Issue Date: 03/29/2019

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

#### **Industrial Hygiene Laboratory Accreditation Program (IHLAP)**

**Initial Accreditation Date: 04/01/1997**

| <b>IHLAP Scope Category</b>           | <b>Field of Testing (FoT)</b><br>(FoTs cover all relevant IH matrices) | <b>Technology sub-type/<br/>Detector</b> | <b>Published Reference Method/Title of In-house Method</b> | <b>Method Description or Analyte</b><br><i>(for internal methods only)</i> |
|---------------------------------------|--|--|--|--|
| <b>Spectrometry Core</b>              | Atomic Absorption  | FAA                                      | NIOSH 7082   |  |
|                                       | Inductively-Coupled Plasma   | ICP/AES                                  | NIOSH 7300   |  |
|                                       | X-ray Diffraction (XRD)  |  | NIOSH 7500   |  |
| <b>Asbestos/Fiber Microscopy Core</b> | Phase Contrast Microscopy (PCM)  |  | NIOSH 7400   |  |
| <b>Miscellaneous Core</b>             | Gravimetric  |  | NIOSH 0500   |  |
|                                       |  |  | NIOSH 0600   |  |

A complete listing of currently accredited Industrial Hygiene laboratories is available on the AIHA-LAP, LLC website at:  
<http://www.aihaaccreditedlabs.org>



## AIHA Laboratory Accreditation Programs, LLC

### SCOPE OF ACCREDITATION

#### **NVL Laboratories, Inc.**

4708 Aurora Avenue N., Seattle, WA 98103

Laboratory ID: **101861**

Issue Date: 03/29/2019

The laboratory is approved for those specific field(s) of testing/methods listed in the table below. Clients are urged to verify the laboratory's current accreditation status for the particular field(s) of testing/Methods, since these can change due to proficiency status, suspension and/or withdrawal of accreditation.

The EPA recognizes the AIHA-LAP, LLC ELLAP program as meeting the requirements of the National Lead Laboratory Accreditation Program (NLLAP) established under Title X of the Residential Lead-Based Paint Hazard Reduction Act of 1992 and includes paint, soil and dust wipe analysis. Air and composited wipes analyses are not included as part of the NLLAP.

#### **Environmental Lead Laboratory Accreditation Program (ELLAP)**

**Initial Accreditation Date: 02/07/1997**

| <b>Field of Testing (FoT)</b> | <b>Technology sub-type/<br/>Detector</b> | <b>Method</b>    | <b>Method Description<br/>(for internal methods only)</b> |
|-------------------------------|--|------------------|---|
| <b>Paint</b>                  |  | EPA SW-846 3051  |   |
|                               |  | EPA SW-846 7000B |   |
| <b>Soil</b>                   |  | EPA SW-846 3051  |   |
|                               |  | EPA SW-846 7000B |   |
| <b>Settled Dust by Wipe</b>   |  | EPA SW-846 3051  |   |
|                               |  | EPA SW-846 7000B |   |
| <b>Airborne Dust</b>          |  | NIOSH 7082       |   |

A complete listing of currently accredited Environmental Lead laboratories is available on the AIHA-LAP, LLC website at:  
<http://www.aihaaccreditedlabs.org>